

## Progress Report

#### TRAFFIC SPEED REPORT NO. 71

TO: K. B. Woods, Director November 2, 1960
Joint Highway Research Project

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FROM: H. L. Michael, Assistant Director File: 8-3-3

Joint Highway Research Project Project: C-36-10C

Attached is the 71st progress report on wehicle speeds which has been prepared by this Project. The current report "Traffic Speed Report No. 71" has been authored by Forrest D. Miller, graduate assistant on our staff.

The results of this latest study indicate a continuation of the increasing speed trend for free-moving vehicles on level, tangent sections of rural highway.

This report is also scheduled for distribution to the Eureau of Public Roads, the Indiana State Police, the Indiana Office of Traffic Safety and the Traffic Engineering and Planning sections of the State Highway Department of Indiana.

The report is presented for the record and for release for distribution.

Respectfully submitted.

Harold & michael

Harold L. Michael, Secretary

Hillskme

Attachment

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Progress Report

TRAFFIC SPEED REPORT NO. 71

by

Forrest Miller Graduate Assistant

Joint Highway Research Project File: 6-3-3 Project: 0-36-100

> Purdue University Lafayette, Indiana November 2, 1960

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#### TRAFFIC SPEED REPORT NO. 73.

This report covers spot speed observations made during

August and September 1960. All observations were made of free moving

vehicles on level tangent sections of rural highways. The locations

of the stations were the same as for previous studies and are as

follows:

- 1. U.S. 52 1.0 mile south of south junction of S.R. 28 (dual lanes)
- 2. U.S. 52 1.0 mile west of Klondike (dual lanes)
- 3. U.S. 52 2.2 miles northwest of Templeton (2 lanes)
- 4. U.S. 31 7.2 miles north of Perrysburg (2 lanes)
- 5. S.R. 25 0.7 mile south of Americus (2 lanes)
- 6. U.S. 41 1.0 mile north of Boswell (2 lanes)

An Electromatic Radar Speed Meter was used to collect the data for this study. The meter was concealed as part of a rural mailbox and placed near the edge of the pavement. It was directed along the highway at a small angle with respect to the direction of traffic so that it was not necessary to make angle corrections to the readings.

The radar equipment used will not operate properly if the voltage varies more than minus 1/2 volt or plus 1 volt from the optimum twelve volts. The voltage was therefore checked periodically in the field and maintained within the desired range. Also, correct calibration was maintained by periodically checking it with a 60 mile per hour tuning fork.

The observers concealed themselves from traffic as much as local conditions permitted. It is thus believed that the speeds of

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per hour busing forth

The observer concerned themselves from breffle as mids of book conditions persilted. It is they believed that its speeds of

the cheerved whiches were not influenced by the observer or the equipment.

A summary of the results of this study, as well as of the last seven states, is given in Table I. Indiana Italia Law Timbre she spend of passenger care and truck under 5,000 por in (6%) to 65 miles per hour. The speed limit of trucks over 5,000 por ide (6%) is 50 miles per hour. This latter speed limit for trucks has been in affect the speed limit is 1959. East truck spend limit signs posted sleet the signs have a file or fine change and its probable that a large portion of the truck drivers are aware of this speed limit change.

Truck speeds are shown in the tables for three groups: light trucks, low, make, and all such a formula to also then separately for 3-lars and 1-lars dynamic. The formula of the formula o

The passenger car data were also classified into three groups:
In light, out of nexts, and all propagate rare. The classification was
deformined by opportune the lighteen plate as came passenger our passing
the observation stations.

of the last previous study (Narch-April 1960) is presented in Tables II through VII. Average and 65th percentile excess were computed for each valuable group from the simple of which percentile states at many sites.



The average speed for all passenger cars was 1.4 miles per hour factor then that obtained in the last study while average speeds for all brucks on 2.7 miles per hour higher than in Harch-April 1960.

Indiana personger date had an average speed on 2-lane higherys 2.4 miles per hour factor while their everage speed on 4-lane higherys increased by 1.4 miles per hour. Out-of-state passenger mass increased their average speed on 2-lane higherys by 0.0 miles per hour.

The average speed for light trucks increased by 4.5 miles per hour on 4-lane nightage. For leavy trucks the average speed it arrange by 2.2 miles per hour on 2-lane highways and 4.0 miles per hour on 4-lane highways.

The 85th percentile speed for all passenger cars increased 0.7 mile per hour.

Trend information on the average speeds of passenger cars and true's and so the 85th parentils apped for passenger cars is shown in Table I and Figure 7 and 8. Table I is a surrary of spot speed observations on Indiana highways for the last eight studies (since August 1956). This are lists the observations for tro-lane highways, four-last highways, and all highways for both passenger cars and trucks.

Figure 7 is a graph sharing mural spend trends from 1943-1960 for both passenger cars and trucks.

Figure 8 is a graph showing brands in percontile speeds and speed differential from 19.9-1900 for both passenger care and heavy trucks. The speed differential is the difference between the Sith percentile of passenger cars and 15th percentile of heavy trucks.

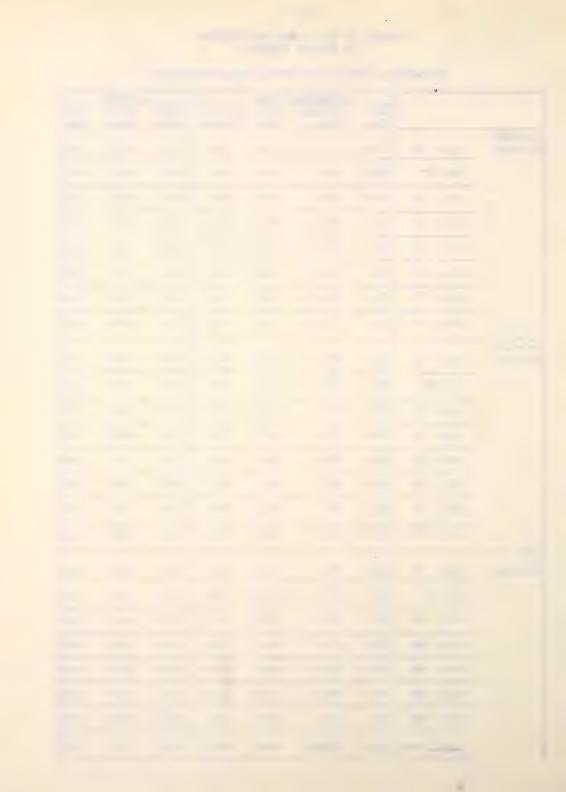


TABLE I

# SUDDARY OF SPOT SPEED OBSERVATIONS ON INDIANA HIGHWAYS

(Pros-Moving Vehicles on Lovel, Tangent Sections)

Strategic Strate	etalist mee all the work and a self fill the first of a	A THE STREET	Fagrence		The state of the s	CALCET A TO	in an air-	
		Ind Hosn	Non-Ind	AII.	ALL 85 nam	Light.	Hann	All
ino-lano	enderson, being office way.	LOSIL	- in	Triul	- P) DET.	188 (17)	Man	_l bar
Hi.ginsaye	Aug. 156	55±0	36.9	55.5	63.1	50.6	45.5	1,5.6
	Hay 197	55.6	59.1	56.9	64.0	50.2	M-8	46.1
	Aug. 197	55-5	56-7	55.9	62.1	527	4578	47.3
	Aug. 158	54.3	56-3	55.0	61.7	53.0	46-3	47.1
	lus. 159	55-5	57.7	56.1	61.9	50 eli	45+4	1,6.3
	Aug. 159	55.6	55+3	59.9	63.2	4917	1,6.7	AB.C
	Mar. 160	53+3	54.49	53+7	61.2	48.5	45.9	46.6
	Supt. 160	55-7	55-6	55.6	62,0	53.0	49.1	49:1
four-Land Lightave	Aug. 155	57±4	50.8	58/2	65.6	4915	46.0	167 a l
	Hay 157	59.9	63.6	63.0	69.0	52.2	46.0	47=9
	Aug. 157	37-5	59=9	58.5	Ó4.8	52.0	46.6	47.6
	Aug. 158	59.0	59+6	58.7	65.0	50.3	49.0	50.0
	liar, (59	56.2	63.7	59+0	ál9	ज्ञ∎6	47.0	49.4
	Aug. 159	98.4	10.1	59+1	64.5	50,0	53.1	1915
	16v 160	58 1.	9948	5044	65,0	52-4	47-3	16.4
	Saph. 960	59 = 5	60,2	59.7	6.8	5/10/3	51.3	52.0
(AD. KLajango	Aug. 156	55-7	37-3	56 <sub>7</sub> /h	64.5	50:2	4516	46.9
	liny °57	57+2	60.3	58.3	66.0	50.9	45.2	46.6
	Aug. 157	56.2	58+3	56.9	63.2	51.8	46.1	47.10
	Aug. 158	55.7	5Y=9	56.5	63 a J	53.4	47.5	48.7
	Mar. 159	56.6	59.0	57.2	63.1	51.5	45.9	47.0
	Aug. 159	56-5	52-4	57×4	63-5	30.6	147 + 8	48.6
	16e, 460	55. G	57 = 3.	76-0	6)=0	50.2	46,6	167 = 5
	المرادة المرادة	57.3	5786	97×16	6347	5017	69+6	50.2



Station 1.0 mile south of south junction of S.R. 28 on U.S. 52

BUSSES		A11	ast Present						-	-					-				1					
	spuno	no re	Freser t La	119	50.3	84.9	70.5	23.5	5.0	0.0	0.0	0.0	09	51.9	62		38	-	59	49.8	09		36	
		0.1	Last	126	47.5	65.0	0.71	0.11	1.0	0.0	0.0	0.0	69	16.5	56	1 1 2 2	37		57	14.7	8		33	
CKS	Less than	5000 pounds	Present	20	56,9	90	30	65	077	10	5	0.0	6	55.4	79		11/1		17	53.1	2		44	1
TRUCKS	Less	2000	Last	33	53.6	. 79	70	36	30	15	112	0.0	10	7.00	72	1	36	2 2	23	55.6	7/4		30	
		1	Present	139	51.7	85.5	72.0	29.65	10,3	1,0	0,8	0.0	69	52,3				1	20	51.1				
		A	Last	159	43,8	0,00	50.0	10,0	7.0	3.0	2.5	0,0	7.9	6.97					30	50.7				
		Non-Indiana	Last Present	195	4.09	1	92,0	82,5	0.09	20.0	6.2	2.5	97	61,3	82	-	444		98	59.5	74		07	1 1 1
		Non-I		185	60.5		0.96	38.0	0.59	13.0	0.7	2.0	82	60.5	72	1	38		103	60.5	80		07	
PASSENGER CARS		Indiana	Present	325	4,0.19		93.6	22.5			6.5	2.5	147	61,5	88		97		178	58.5	90		36	
PASSEM		Ind	Last	339	60.2		95.5	7.04	59.0	20.0	7.0	2.0	123	7.09	80		777		216	0.09	34		07	
			st Present	520	60.3		95.2				6.2	4.5	244	61.4					276	59.4				
		ALL	Last	524	60.3		0.96	6.48	61.0	19.0	6.0	0.00	205	60.9		1			319	60.2		1		
			OBSERVATION	No. of Vehicles Obs.		0 45 m 25h	50 H-D-h-	the SS man by	il.	DX.	A TO B D-	14 0 75 m.p.h.	O No. of Vehicles Obs.	Ave. Speed (m.p.h.)	Max Speed (m.p.h.)	N State or Type	Min.		D No. of Vehicles Obs.	Ave. Speed (m.p.h.)	BO Max. Speed (m.p.h.)	State or Type		State or Type



SPEED DATA

station 1.0 mile west of Klondike on U. S. 52

Weather Warm and Cloudy	Last Previous Observation (Speed Report No. 69) Date March 21, 1960 and March 23, 1960 Time 1:35 - 3:45 PM, 1:30 - 3:30 PM
tland Cement Concrete	Date Aug. 30, 1960, Sept. 2, 1960 Lime 2:30 - 2:20 PM, 1:50 - 4:10 PM
6 4 lane divided - 24' Portland Cement Concrete	This Observation Date Aug. 30, Time 2:30 - 2
Surface	

BUSSES		All	Present						i	1 4	1		1 1	1	-				4 4 9	1			0.00	-
BUS		A	Last		1					1		-	-		3		-		1					1
	pounda	more	Present	83	51.9								-			1 2 1	37.		29		56		26	
	9000	0 2	Last	139	47.1	65.0	7.2.0	7.0	1.0	0.0	0.0	0.0	62	0.67	8		37		77	7.5.5	58		28	
SKS	than	5000 pounds	Present	30	53.4	80.0	73.3	43.3	33.3	6.7	0.0	0.0	14	50.2	79		07		16	56.3	63		32	
THUCKS	Leas than	5000	Last	39	51,4	79.0	47.0	16,0	11.0	0.0	0.0	0.0	20	53.2	92		07	1 1	19	49.5	09		07	* * * *
		A11	Present	113	52.4	81.4	0°69	36,3	16.3	1.8	0.0	0.0	68	53.7					4.5	50.2				
		Ä	Last	178	43.0	68,0	43.0	9.0	3.0	0.0	0.0	0.0	82	50.0					96	46.3				
		diana	Last, Present	200	0.09		97.0	77.5	54.5	25.5	8.0	0.0	111	61.2	74		07		39	58.4	72	1	42	
		Non-Indiana	Last	124	57.2	1	39.0	68.0	0.44	11.0	0.4	0.0	62	59.7	72		44		62	54.8	68		36	
PASSENGER CARS		Indiana	Last Present	344	53.6	-	93.3		4-2-4		6.4	6.0	161	59.7			38		153	57.2	74		07	
PASSEN		Ind	Last	362	56.1		85.0	57.0	36.0	10.0	0.4	1.0	139	57.6	46		32		173	54.4	7/4		34	-
			Last Present	544	59.1								302	60.2			1		242	57.7				-
		ATT	Last	786	20.4		86.0	0.09	38.0	10.0	0.4	0.0	251	58.1		1			235	54.5				
			OBSERVATION	No. of Vehicles Obs.	Ave. Speed (m.p.h.)	of 45 m. Doho	50 m p h						Obse	Ave. Speed (mopoho)		State or Type	Min. Speed (mop.h.)	State or Type	80	ve Speed (m.s.h.)	Max Speed (m.p.h.)	State or Type	Min. Speed (m.p.h.)	State or Type
					1	97	0	Ϋ́	Λ	TI				no		H			ID	inc	BC		M	



2.2 miles northwest of Templeton on U. S. 52 Station

Last Previous Observation (Speed Report No. 69)
Date March 25, 1960
Time 3:30 - 5:00 PM Weather Warm and Clear 2 lane - 22' Bituminous Concrete This Observation
Date Sept. 1, 1960
Time 2:00 - 3:40 PM Surface

BUSSAS		All	Present					-	4.00					0 0 0	1				1 2	-	9 40 51			
BUC			Last	1		-	-	-		-	-	-	-		-		-				-	1	-	
	5000 pounds	mo re	Fresent	73	49.3	79.4	63.0	19.2	2.7	0.0	0.0	0.0	37	48.4	56		30			50.3	99	1	34	
	5000	00	Last	37	47.3	78.0	46.0	3.0	0.0	0.0	0.0	0.0	21	47.0	55		38	-	16	47.7	23	1	07	1
3	than	pounds	Present	2	50.9	80.0	0.09	0.04	20.0	0.0	0.0	0.0	7	67.0	54	-	54		4	50.0	62	-	32	
TRUCKS	Less	5000 p	Last	4	6.67	75.0	75.0	25.0	0.0	0.0	0.0	0.0	2	22	50		50		2	79.5	55		7777	
		1	Present	78	49.5	79.5	62.3	20.5	3.8	0.0	0.0	0.0	38	78.6	1			1	07	50.3				
		AII	Last	77	9.67	73.1	48.3	5.0	0.0	0.0	0.0	0.0	23	47.3					13	6.27				
		diana	Present	196	56.8		93.9	7.69	33.7	6.7	1.5	0.0	118	56.6	202		30	2 1	78	57.7	74		42	-
		Non-Indiana	Last		56.4		91.4	58.0	32.0	0.6	2.0	0.0	58	53.0	72		87	2	35	53.7	72		42	
PASSENGER CARS		Indiana	Present	149	56.7		39.3	63.1	34.3	12.2	6.2	0.7	76	56.8	76		36		73	56.6	72		777	-
PASSEMO		Indi	Last		57.0		92.2	0.79	33.0	0.6	5.0	0.0	38	56.6	72	1	97	1	26	57.7	202		07	
		1	Present	345	56.8		91.9	1	33.8		3.5	0.3	13	56.7	1			1	151	56.9				-
		All	Last		50.7		92.0	61.0	42.0	0.6	3.0	0.0		57.4		1			61	55.4		-		
			OBSERVATION	No of Vahicles Obs.	Speed (m.p.h.)	1.5 m n.h.	4 c m 0x n	47 A A A A A A A A A A A A A A A A A A A	00 FO TO	X C	20 m b	0 75 m.n.h.	of Vehicles Ohs.	( d c m) basec	BO May Speed ( m 2 h )	State or Trong			No. of Vehicles Obs.	Spend (m.p.h.)	Max Speed (m.p.h.)	State or Type	Min. Speed (mon.h.)	State or Type
				.2		60	cj	au Fu	Λe	en	TA FE	30	q	NO	BO	N	Min		Q Q	NU	BO	L_	S	



7.2 miles north of Perrysburg on U. S. 31

station

Weather Date Sept. 0, 1,000 PM - 1:15-2:40 PM 2 lane - 22' Bituminous Concrete Sept. 6, 1960 This Observation Surface

Last Previous Observation (Speed Report No. 69 Warm and Clear

March 29, 1960 12:45-4:15 PM Date Time

Presen -BUSSES ast 1 -resent 0.00 5000 pounds 6.67 28 TO LE 30 36 43.2 7.87 ----26 0 ast 99 42 resent 36.0 spunod .67 -55. 2 53 33 15 Less than THUCKS 73.0 62.0 27.0 0.0 0.0 12 48.2 1 5000 51.9 1 ASL 17 07 32 Present 36 79.9 53.2 19.8 7.1 7.05 48 AL1 0.000 75 59.8 40.2 8.8 47.0 6.67 44.4 Last 102 43 93.3 64.9 9.5 1.4 1.4 Presen 48 57.3 78 Non-Indiana -------28 97 28 25 53.0 64 -------99 04 PASSENGER CARS 31.5 9.3 2.2 1.1 79.3 54.6 Presen 55.4 151 56 30 270 0,1 32 Indiana 23.0 60.5 54.7 40.7 32 Last 546 34 30 Present 57.9 56.0 30.5 4.6 56.3 344 145 199 ALL 52.9 71.0 0.00 54.8 Last 299 156 143 No. of Vehicles Ubs of Vehicles Obs of Vehicles Obs Speed (m.p.h. Max. Speed (m.p.h. Speed (m.p.h. State or Type Speed (mop.h. State or Type State or Type Ave. Speed (m. 2.h. Speed (months State or Type (m. p.h. 50 m.p.h. 70 m.p.h. 75 Topaho 45 me Doh 55 m.poh TXC ON HODO OBSERVATION 4°d°m 09 Speed Sail Saines Ave Min Min No AVE No 9 BOUND N BOUND



0.7 mile south of Americus on S. R. 25 Station 2 lane - 22' Bitumingus Concrete Surface

This Observation
Date Sept. 2, 1960
Time 9:00-11:30 AM

Last Previous Observation (Speed Report No. 69 Date April 1, 1960 Time 2:45-4:20 PM

Warm and Clear

Weather

543		A11	Present				-	1		4				-	-		-		6 6	6 0	1		1	
BUSGAS		\d	+00		-					-	-	9 8	1				1			1			:	
	pounds	no re	Fresent	79	9.67	82.3	51.8	15.2	5.1	1,3	0.0	0.0	39	51.1	62	1 1 0 0	38		07	48.1	99		38	
	1 00005	240	, pa	63	45.7	59.0	25.0	5.0	0.0	0.0	0.0	0.0	23	47.1	55		07	-	07	6.44	55		32	-
3	than	epuno	Present	31	56.1	93.5	93.5	54.0	29.0	7.9	3.2	0.0	17	56.2	20	1	42	1	14	50.1	1/9	-	22	-
THUCKE	Leas than	5000 pounds	Last.	_	43.5	76.0	39.0	9.0	0.6	0.0	0.0	0.0	24	9.67	65		37	1	6	45.4	53		36	
		7	Present	110	51.4	35.5	63.6	27.2	11.8	2.7	6.0	0.0	56	52.7					54	50.1				
		ILLY	Last	96	46.7	65.0	30.0	0.9	3.0	0.0	0.0	0.0	27	43.4	1				67	45.0				
		diana	Fresent	63	58.1		93.6	76.2	44.5	11.2	1.6	0.0	30	57.3	89	1	07		33	58.5	22		97	
		Non-Indiana	Last		55.0		43.0	52.0	24.0	3.0	0.0	0.0	13	53.6	63	1	1,2	-	16	56.1	99	1	77	
PASSENGER CARS		Indiana	Present	337	56.9		84.9	53.4	37.4	15.2	5.9	2.0	154	56.2	76		07		133	57.4	33		04	
PASSEN(		Ind	Last	315	53.8		76.5	48.0	20.0	0.9	2.0	1.0	181	53.7	76		36		134	54.1	79		34	
		A11	Last Present	007	57.1					14.5	5.2	1.7		56.4					216	57.6				
		A	Last	344	53.9		77.0	0.67	21.0	0.0	2.0	1.0	194	53.7					- +	54.3				
			OBSERVATION	No. of Vehicles obs.		20 45 m. p.h.	SO E. D. h.	F 55 m.p.o.h.	100 B D D	TI OB SO	70 m.p.h.	2 0 75 T. D. h.	No. of Vehicles Obs.	S Ave. Speed (m.p.h.)	Max. Speed (m.p.n.)	State or Type	Min. Speed (m.p.h.)	State or Type	No. of Vehicles Obs.	Ave. Speed (m.p.h.)	Max. Speed (m.p.h.)	State or Type	Min. Speed (m.p.h.)	State or Type



SPEED DATH

station 1.0 mile north of Boswell on U. S. 41

This Observation Sept. 1, 1960
The Date Sept. 1, 1960
The 10:20-1:05 PM

Acather Warm and Clear Last Frevious Observation Speed Report No. 69)
Date April 12, 1960
Time 2:45-5:00 PM

Buscal		1	Fresent!																					
		PLOTE TO	-		45.3 45.6				0.0	0.0	0.0 0.0			1					41 45				34 30	
2. 1. 1. L. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1.	1. 1. 1. a.c.	The pounds	St. Present	-	47.0 47.6	+	t-	9 23.6	3 0.0	0.0	6.0 9	3 0.0 7			76 52				16 11				36 38	
		,		109		9.09	33.0		4.0 0.9	2.0 0.0	2.01 0.0刊	1.0 0.0	53 ==	6.414				İ	57 56 1	6.97		Account of the last of the las		
		יוסיים	L'COCULT	106 166 11	7 51.8			33.8		5.0 3.0	2.0 0.0	0.0	===	53.8	99		38 40	_	34   92				38 36	
בייבור ביים מאליולינים בירו		Strid	Jane Sand	116	51.8 51.6		67.0 65.6	33.0 31.9	15.0 10.5	3.0 1.7	1.0 0.0	0.0	67	53.5	69 02		34 32		73 67			- Company	32 40	
~~		1	L TUBERT	55   282	52.6 51.7		71 64.2	- }	- 1	4 2.5	2 . 0.0	0.0 0.0				-		- ,	107 159	51.3 50.2				
			OBSERVALLOR	No. of Velicles one	Ave. S	1,15 m	200	Transition of the state of the	11 to b	P P P P P P P P P P P P P P P P P P P	70 m D	75 =	No. of Veniches of	Ave Cound (in p. l.)	B Kak Seel (in . m.)	N. Or Time	Min daged (t. )	Otate or Type	No. of Velicles Obs.	S Ave. Speed (L., h.)	Max. Speed (m.p.h.)	State or Type	Min Speed (n. y. h.)	State or Type



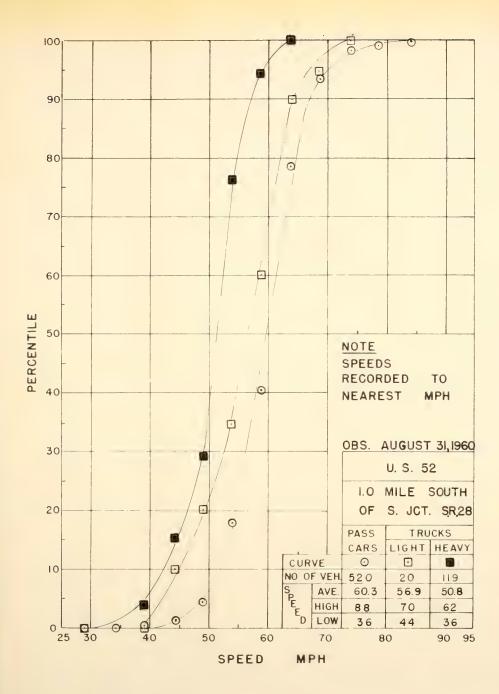


FIGURE 1



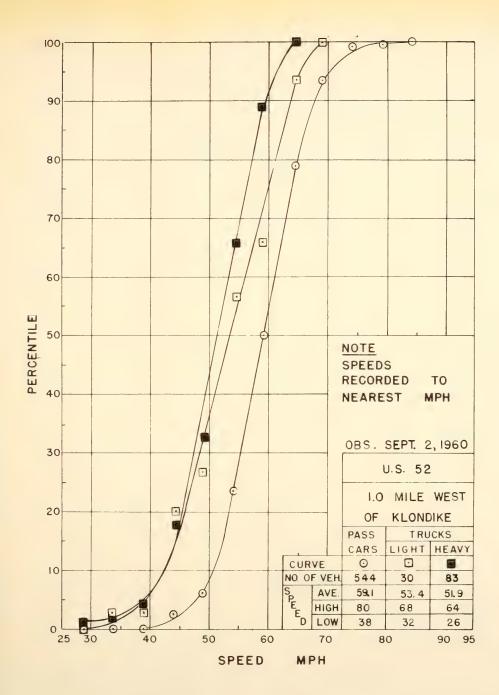


FIGURE 2



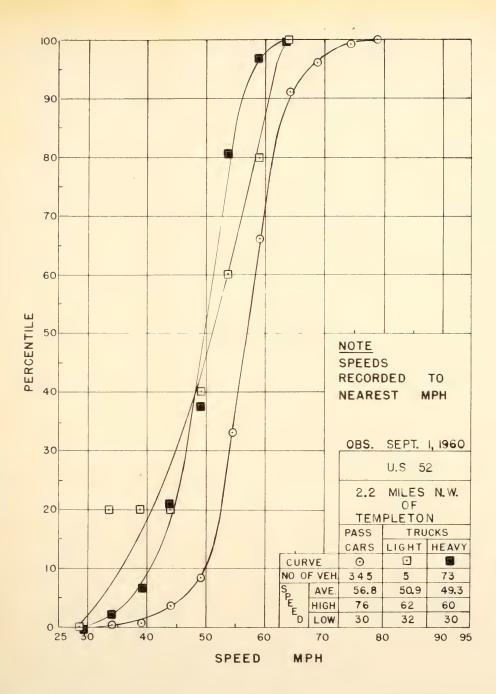


FIGURE 3



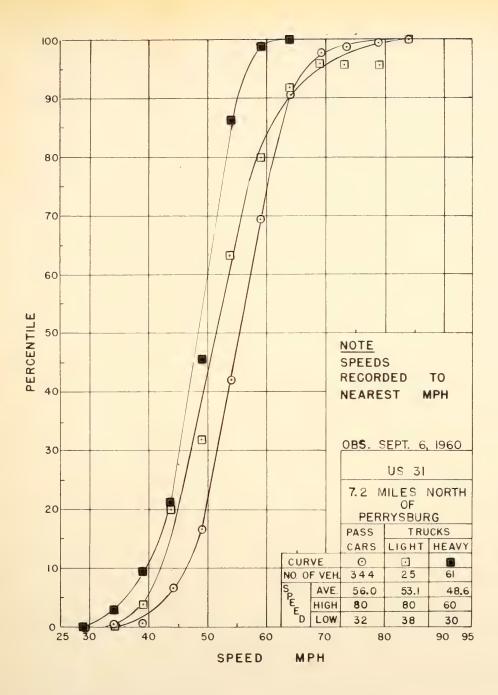


FIGURE 4



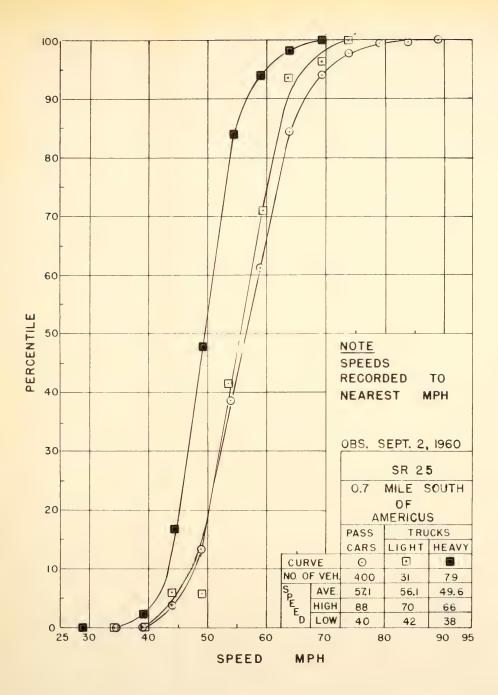


FIGURE 5



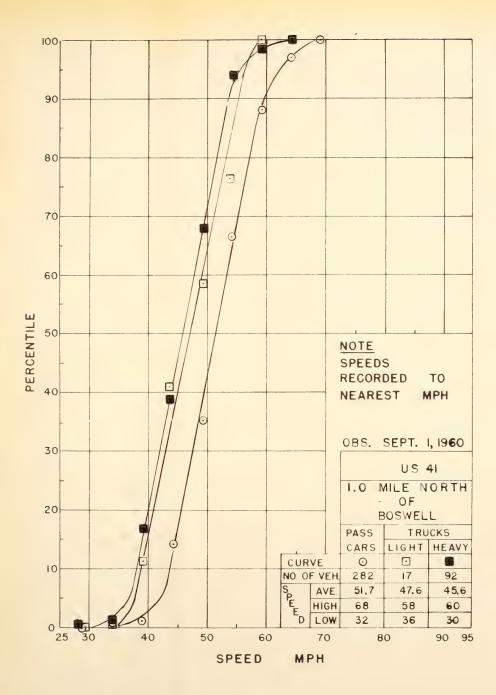


FIGURE 6



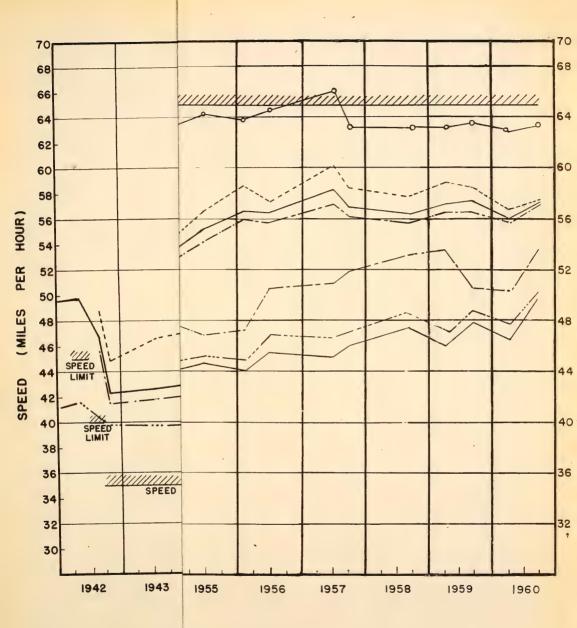
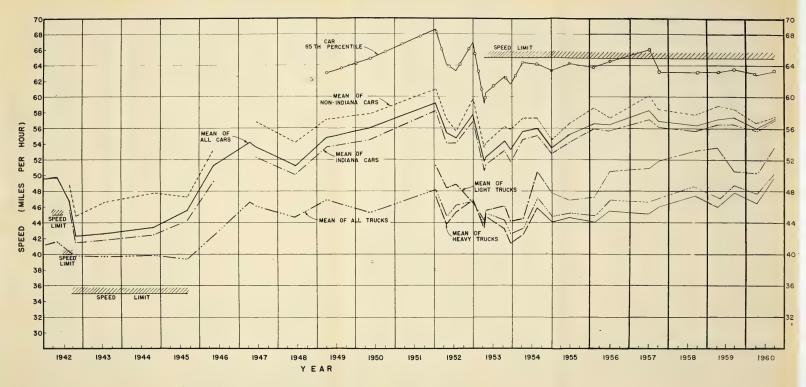


FIG. 7





INDIANA RURAL SPEED TRENDS 1942-1960



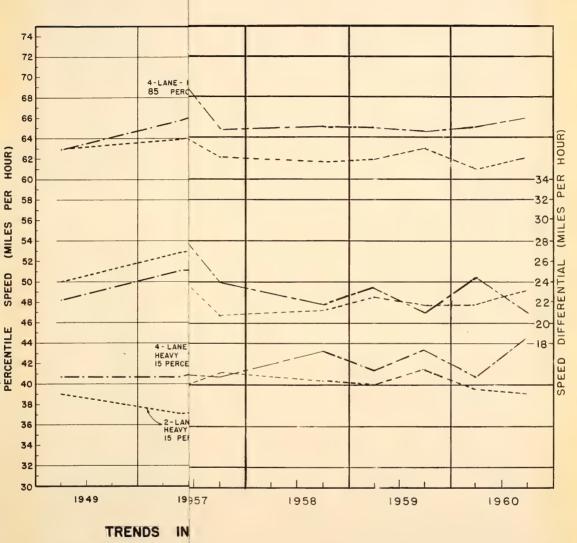


FIG. 8



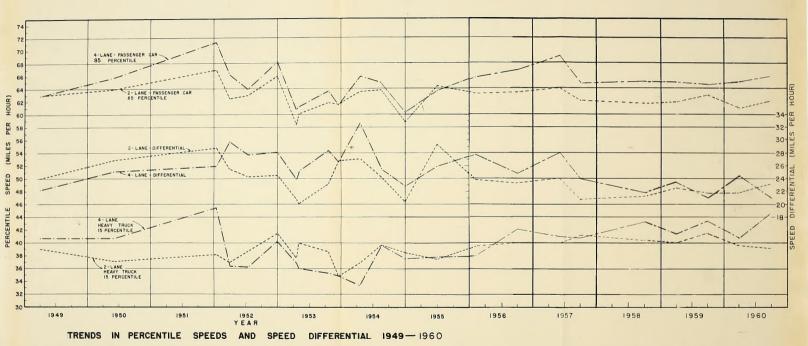


FIG. 8

